



Needle shut-off valves with bulkhead threads for panel mounting

PN 18

Materials: Housing: Brass nickel-plated, seal: NBR
Temperature range: -10°C to max. +80°C
Switch panel mounting: For borehole diameter Ø 14.5 mm

Type	Thread	DN	L	H	E _{max}
NADEL 18 MSV	G 1/8"	4	51.6	64	3
NADEL 14 MSV	G 1/4"	4	57.0	64	3
NADEL 38 MSV	G 3/8"	8	63.0	90	10
NADEL 12 MSV	G 1/2"	8	69.0	90	10

Outstanding value!



Stainless steel needle shut-off valves

★★★★★ Eco-Line PN 300

Materials: Housing AISI 316, handle: AISI 304, seal: PTFE (on the spindle)
Temperature range: -20°C to max. +200°C

Type	Thread	DN	L	H	KV value*
NADEL 18 ES E	G 1/8"	2.5	48	77	8.0 l/min
NADEL 14 ES E	G 1/4"	3.5	56	80	11.5 l/min
NADEL 38 ES E	G 3/8"	3.5	56	80	13.5 l/min
NADEL 12 ES E	G 1/2"	4.8	66	89	18.0 l/min
NADEL 34 ES E	G 3/4"	6.4	66	93	21.0 l/min
NADEL 10 ES E	G 1"	9.5	80	108	24.0 l/min

* water flow rate at +20°C, 1 bar pressure at the valve inlet, free discharge.
 air flow [l/min] $\approx 13.4 \cdot K_V \cdot P_{input}$, if $P_{output} < \frac{P_{input}}{2}$ (P_{input} and P_{output} are absolute values in bar.)

Needle shut-off valves with hand wheels

★★★★★ up to 400 bar

Materials: Housing: Zinc-pl. steel or stainl. steel AISI 316Ti, seal: Graphite (type AISI 316Ti: PTFE), hand wheel: Pressed plastic
Temperature range: -30°C to max. +350°C (type AISI 316Ti: -30°C to max. +250°C)

Type zinc-plated steel	Type AISI 316Ti	Thread	DN	L	KV value*	PN
NADEL 18 HR	NADEL 18 HR ES	G 1/8"	4	45	4 l/min	400 bar
NADEL 14 HR	NADEL 14 HR ES	G 1/4"	5	55	8 l/min	400 bar
NADEL 38 HR	NADEL 38 HR ES	G 3/8"	6	55	10 l/min	400 bar
NADEL 12 HR	NADEL 12 HR ES	G 1/2"	7	60	12 l/min	400 bar
NADEL 34 HR	NADEL 34 HR ES	G 3/4"	9	75	18 l/min	200 bar
NADEL 10 HR	NADEL 10 HR ES	G 1"	12	100	32 l/min	200 bar
NADEL 114 HR	NADEL 114 HR ES	G 1 1/4"	15	110	60 l/min	160 bar
NADEL 112 HR	NADEL 112 HR ES	G 1 1/2"	22	130	115 l/min	120 bar
NADEL 20 HR	NADEL 20 HR ES	G 2"	22	130	130 l/min	120 bar

* water flow rate at +20°C, 1 bar pressure at the valve inlet, free discharge.
 air flow [l/min] $\approx 13.4 \cdot K_V \cdot P_{input}$, if $P_{output} < \frac{P_{input}}{2}$ (P_{input} and P_{output} are absolute values in bar.)

Needle shut-off valves

up to 100 bar

Materials: Housing: Brass, seal: NBR (3/4"- 2": PTFE)
Temperature range: -30°C to max. +110°C (G 1/8": -10°C to max. +60°C)

Type FT/FT	Type MT/MT	Thread	DN	L	KV value*	PN
NADEL 18	---	G 1/8"	4	36	---	15 bar
NADEL 14	NADEL 14 A	G 1/4"	4	42	---	40 bar
NADEL 38	NADEL 38 A	G 3/8"	7	50	---	40 bar
NADEL 12	---	G 1/2"	11	64	---	40 bar
NADEL 34	---	G 3/4"	9	67	18 l/min	100 bar
NADEL 10	---	G 1"	11	75	28 l/min	100 bar
NADEL 114	---	G 1 1/4"	13	110	42 l/min	100 bar
NADEL 112	---	G 1 1/2"	15	110	60 l/min	100 bar
NADEL 20	---	G 2"	15	110	60 l/min	100 bar

* water flow rate at +20°C, 1 bar pressure at the valve inlet, free discharge.
 air flow [l/min] $\approx 13.4 \cdot K_V \cdot P_{input}$, if $P_{output} < \frac{P_{input}}{2}$ (P_{input} and P_{output} are absolute values in bar.)

Ball shut-off valves

PN 40

Materials: Housing: Hot-pressed brass, handle: Plastic, seal: NBR, valve seat with metal sealing
Temperature range: -30°C to max. +110°C

Type angle	Old order number	Type straight	Thread	DN
ASVW 18	ECK 18	ASVG 18	G 1/8"	4.0
ASVW 14	ECK 14	ASVG 14	G 1/4"	5.5
ASVW 38	ECK 38	ASVG 38	G 3/8"	8.0
---	---	ASVG 12	G 1/2"	11.0



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